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## GARRARD COUNTY

### (Garrard County Water Service Area Map)

- Estimated 1999 population of 14,200--88% on public water
- Estimated 2020 population of 18,200--91% on public water
- 295 miles of water lines, with plans for 41 additional miles
- Estimated funding needs for public water 2000-2005--\$2,246,000
- Estimated funding needs for public water 2006-2020--\$3,167,000

Garrard County had an estimated population of 14,225 (6,008 households) in 1999 with a projected population of 18,239 (8,401 households) in 2020. Public water is provided to about 88 percent of the county's residents. In areas of the county not served by public water, about 20 percent of the households rely on private domestic wells and 80 percent of the households rely on other sources. About 260 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
<b>GARRARD</b>								-
Lancaster				200	1,800		50	2,050
Garrard Co. W/A	16.5	46	196					196
<b>TOTAL</b>	<b>16.5</b>	<b>46</b>	<b>196</b>	<b>200</b>	<b>1,800</b>		<b>50</b>	<b>2,246</b>

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
<b>GARRARD</b>								-
Lancaster				750				750
Garrard Co. W/A	24	215	980	1,037				2,017
Crab Orchard					400			400
<b>Total</b>	<b>24</b>	<b>215</b>	<b>980</b>	<b>1,787</b>	<b>400</b>			<b>3,167</b>

## PUBLIC WATER SYSTEMS

Garrard County has 3 community water systems: 1 municipal, Lancaster Water Works; 1 water association, Garrard County Water Association, Inc.; and 1 private system. Parts of the county are also served by Crab Orchard Municipal Water and Western Rockcastle County Water Association.

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# WATER SERVICE AREAS

## GARRARD COUNTY

### Kentucky

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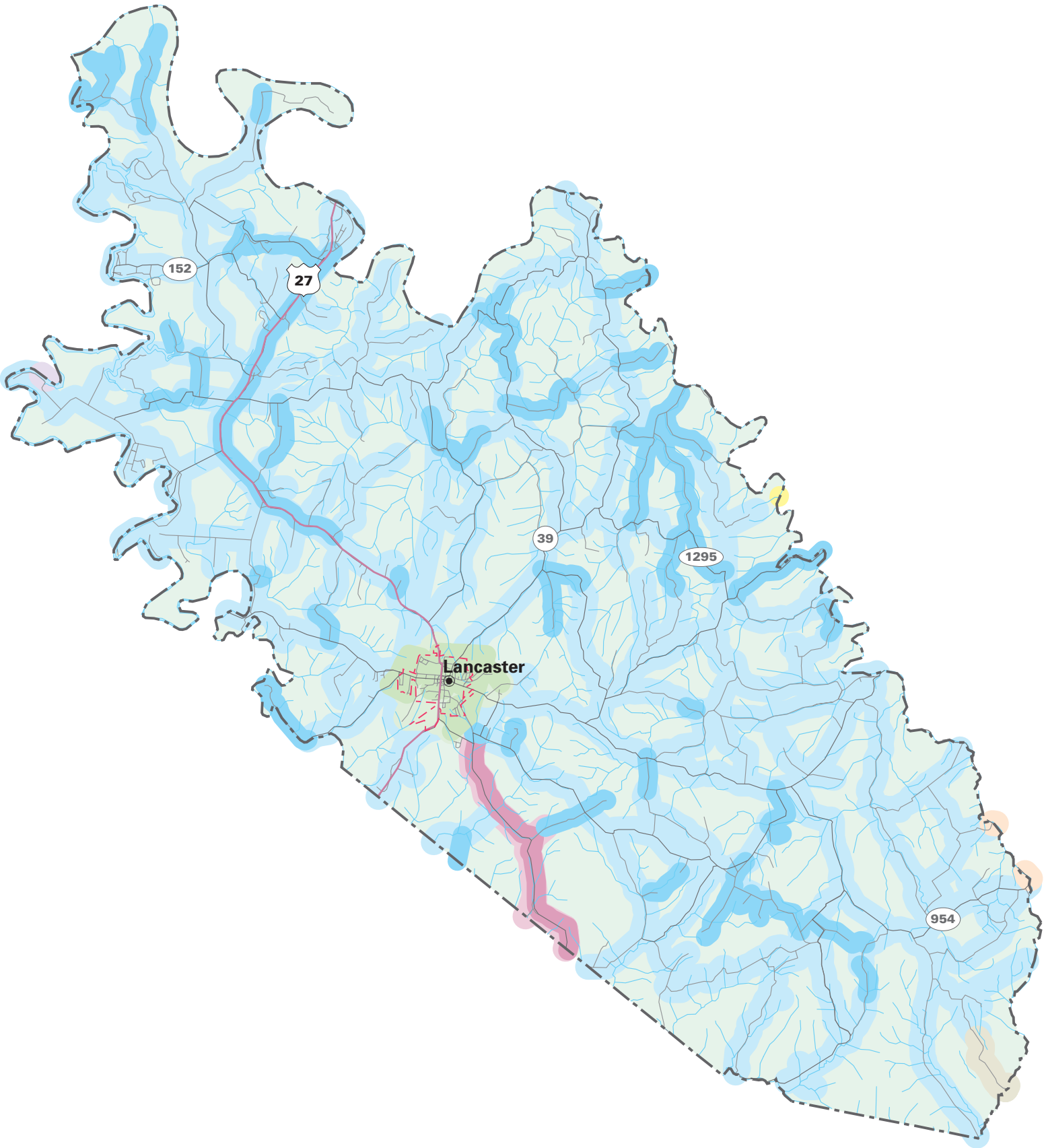
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN ROCKCASTLE WATER ASSOCIATION
		SOUTHERN MADISON WATER DISTRICT
		LANCASTER MUNICIPAL WATER
		LAKE VILLAGE WATER ASSOCIATION
		KIRKSVILLE WATER ASSOCIATION
		GARRARD COUNTY WATER ASSOCIATION
		CRAB ORCHARD MUNICIPAL WATER

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**GARRARD COUNTY WATER ASSOCIATION INCORPORATED**

PWSID: ..... 0400151  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER ASSOCIATION  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 55,500.00  
Total Service Connections: ..... 3,646.00  
Number of Employees: ..... 5.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 4.92  
O/M costs 1997: ..... 566,494.00  
O/M costs per Service Connection: ..... 158.68  
Net Revenue 1997: ..... 124,040.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 200,301,950.00  
Unaccounted-for Water 1997 (%): ..... 15.17

**LANCASTER MUNICIPAL WATER WORKS**

PWSID: ..... 0400233  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... RESERVOIR  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 2.16  
Percent Daily Average Production: ..... 57.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 0.00  
Number of Employees: ..... 0.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 3A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**OTHER SYSTEMS**

**DAUGHTER'S PARK SUBDIVISION**

Daughter's Park Subdivision is located in Garrard County. The system serves a population of 115 and has 35 service connections. The private, community system has treatment capacity

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of 20,000 gallons per day and storage capacity of 462,000 gallons. The water source is from wells.

### **PRIVATE DOMESTIC SYSTEMS**

About 1,600 residents of Garrard County rely on private domestic water supplies: 300 on wells, and 1,300 on other sources.

In the Dix River valley and parts of the Kentucky River valley, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys of the county will produce enough water for a domestic supply except during dry weather. In the upland areas of Garrard County, which encompasses 75% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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